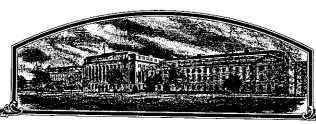
No.



8900064

THE MULTED SHAVES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS; SHALL COME;

United AgriSeeds, Inc.

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different tety therefrom, to the extent provided by the Plant Variety Protection Act.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'Allegiance'

In Lestimony Withereof, I have hereunto set my hand and caused the seal of the Plant Variety Exotection Office to be affixed at the City of Washington, D. C. this 31st day of March in the year of our Lord one thousand nine

hundred and eighty-nine.

Secretary of Agriculture

Aller

Kennell H, Evans

Plant Variety Protection Office Agricultural Marketing Service

U.S. DEPARTMENT OF AGRICULTU	JRE	FORM APPROVED: OMB NO. 0581-0055	
AGRICULTURAL MARKETING SERV	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is		
(Instructions on reverse)		held confidential until certificate is issued (7 U.S.C. 2426).	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME	
United Agriseeds, Inc.	84-27	Allegiance	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY	
P. O. Box 4011 Champaign, IL 61820	(217) 373-5300	890064	
6. GENUS AND SPECIES NAME 7. FAMILY NA	l ME (Botanical)	DATE	
Medicago sativa L. Legumin	nosae	Jan. 3 1989 The 9:30 MA.M. P.M.	
8. KIND NAME 9.	DATE OF DETERMINATION	AMOUNT FOR FILING	
Alfalfa	Oct. 26, 1984	S 1800- DATE . 3 1989 AMOUNT FOR CERTIFICATE	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM partnership, association, etc.)	OF ORGANIZATION (Corporation,	ANGUNT FOR CERTIFICATE	
[main Corporation		Teb. 23 1989	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Massachusetts		12. DATE OF INCORPORATION NOV. 1981	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S),	F ANY TO SERVE IN THIS APPLIC	<u></u>	
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITAL. a. \(\begin{align*} \begin{align*} \text{Exhibit A, Origin and Breeding History of the Variety (See b. \(\begin{align*} \begin{align*} \text{Exhibit B, Novelty Statement.} \\ \cdot \end{align*} \) c. \(\begin{align*} \begin{align*} \text{Exhibit C, Objective Description of Variety (Request form.} \\ \delta \end{align*} \) d. \(\begin{align*} \begin{align*} \text{Exhibit D, Additional Description of Variety.} \\ \end{align*} \) e. \(\begin{align*} \begin{align*} Exhibit E, Statement of the Basis of Applicant's Ownership in the statement of	TTED Section 52 of the Plant Variety Pro from Plant Variety Protection Offic		
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARI SEED? (See Section 83(a) of the Plant Variety Protection Act.)	`		
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	17. IF "YES" TO ITEM 16, V BEYOND BREEDER SEE	WHICH CLASSES OF PRODUCTION ED? Registered X Certified	
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECT	ION OF THE VARIETY IN THE U	.s.? Yes (If "Yes," give date) X No	
19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, Allegiance was sold in limited quantit in Fall 1988. There have been no sale	ties in the United St es in other countries	ates Yes (If "Yes," give name of countries and dates) No	
20. The applicant(s) declare(s) that a viable sample of basic seed plenished upon request in accordance with such regulations		with the application and will be re-	
The undersigned applicant(s) is (are) the owner(s) of this see distinct, uniform, and stable as required in Section 41, and i Variety Protection Act.	cually reproduced novel plant var	riety, and believe(s) that the variety is e provisions of Section 42 of the Plant	
Applicant(s) is (are) informed that false representation herei	n can jeopardize protection and		
SIGNATURE OF APPLICANT		12-21-88	
SIGNATURE OF APPLICANT		DATE	

Exhibit A

Origin and Breeding History of Allegiance

Allegiance is a synthetic variety developed through two cycles of recurrent phenotypic selection for improved pest resistance. The base population was composed of 191 plants from three experimental synthetics and DK 120 selected for disease-free foliage and root systems and for high forage yield in three-year old test plots. Approximately 95 selections from the three experimental lines were reciprocally hand-crossed to 96 DK 120 plant selections in the greenhouse. Seed was harvested and bulked. The bulked seed generation was screened for resistance to Phytophthora root rot and bacterial wilt in sequential inoculations with 100 plants selected and intercrossed in the greenhouse to produce the next generation (Cycle 1). The Cycle-1 generation was then screened for resistance to anthracnose (Race 1). Two hundred anthracnose resistant selections were grown under cage isolation at Warden, WA in 1984 with seed harvested as breeder seed (Syn. 1).

The original source material in Allegiance traces predominately to Vertus, Grimm, and WB-6, with lesser contributions from Vernal, Saranac, and Weevlchek.

Type and Frequency of Variants

No variants are recognized in Allegiance beyond the limits given in Exhibit C.

Evidence of Uniformity and Stability

Allegiance is stable in all essential and distinguishing characteristics during normal seed production. Allegiance is as uniform as other alfalfa varieties previously accepted by state seed certification programs.

Exhibit B

Novelty Statement for Allegiance

Allegiance is a dormant variety that possesses superior disease, insect, and nematode resistance when compared to most varieties with similar fall growth characteristics. Allegiance is most similar to DK 125 in growth type, appearance, and pest resistance. However, Allegiance is resistant to bacterial wilt (DK 125 = HR, Table 1), has low resistance to spotted alfalfa aphid (DK 125 = S, Table 3), and Allegiance is a Ranger-type for fall dormancy (DK 125 = Saranac-type, Table 2). Allegiance is also similar to Echo. However, Allegiance is highly resistant to anthracnose (Echo = MR, Table 4), and Allegiance is a Ranger-type fall dormancy (Echo = Saranac-type dormancy, Table 2). Allegiance is also similar to Fortress. However, Allegiance is resistant to phytophthora root rot (Fortress = HR, Table 5), and Allegiance is highly resistant to anthracnose (Fortress = R, Table 4). Allegiance is also similar to WL 316. However, Allegiance has low resistance to the spotted alfalfa aphid (WL 316 = R, Table 3), and Allegiance is a Ranger-type fall dormant (WL 316 = Saranac-type dormancy, Table 2). Allegiance is also similar to Oneida VR. However, Allegiance is highly resistant to anthracnose (Oneida VR = MR, Table 4), and Allegiance is resistant to phytophthora root rot (Oneida VR = MR, Table 5).

Table 1 > Bacterial Wilt Resistance - Highland, MD

Entry	<pre>% Resistance</pre>	A.S.I.
Allegiance (R)	60	1.38
DK 125 (HR)	71	0.83
Vernal (R)	53	1.57
Narragansett (S)	9	3.44
LSD .05		0.52
CV %		19

Table 2 > Fall Dormancy Reaction* - Warden, WA (1987)

Entry	Fall Height (Inches)
Vernal (2)**	5.2
Ranger (3)	6.9
Saranac (4)	7.8
Allegiance (3)	7.0
Fortress (4)	7.7
DK 125 (3)	8.2
WL 316 (4)	8.3
Echo (4)	8.9
LSD .05	1.3
CV %	12.8

^{*} Plots clipped 9/16/87, measured 10/15/87. Fall Height measured in inches from a replicated space-plant nursery.

^{**}CASC system.

Table 3 > Spotted Alfalfa Aphid Resistance - Bakersfield, CA (1987)

Entry	% Resistance	A.S.I.
Allegiance (LR)	13	4.5
5432 (HR)	56	2.9
WL 316 (R)	48	3.3
DK 125 (S)	1 .	4.8
Oneida VR (S)	1	4.8
Kanza (R)	52	3.1
Ranger (S)	0	5.0
LSD .05		0.4
CV %		4.8

Table 4 \rightarrow Anthracnose Resistance - Highland, MD (1987)

Entry	% Resistance
Allegiance (HR)	67
Fortress (R)	30
	21
Echo (MR)	17
Arrow (MR)	
Oneida VR (MR)	16
5432 (S)	2
Saranac AR (R)	39
Saranac (S)	2
LSD .05	6
CV %	17

Table 5 Phytophthora Root Rot Resistance - Highland, MD (1987)

Entry	% Resistance
Allegiance (R)	34
Arrow (HR)	52
Fortress (HR)	45
DK 125 (R)	44
Oneida VR (MR)	24
5432 (MR)	9
Agate (R)	. 33
Saranac (S)	3
LSD .05	8
CV %	13

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK AND SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

•	•	ALFALFA	(Medicago sativa sens	su Gunn et al.)				
NAME OF APPLICANT(S)	······		TEMPORARY D	ESIGNATION	VARIETY NAME			
United Agriseeds,	, Inc.		84	1-27	Alle	Allegiance		
ADDRESS (Street and No., or R.F.D.	No., City, State, and Zi	p Codej			F	OR OFFICIAL USE	ONLY	
P. O. Box 4011					PVPO NUMBER			
Champaign, IL 61	L820				89	900064		
PLEASE READ ALL INSTRUCTS application variety. Data for quar titative data. Comparative data sh e.g., The Munsell Plant Tissue Colo	ntitative plant charac ould be determined	ters should be based	on a minimum of 10	0 plants. Include le	eading zeros when n	ecessary (e.g., 0	8 9) for quan-	
1. WINTERHARDINESS:								
3 5 7	= Very Non-Winterhar = Intermediately Non- = (Du Puits) = (Ranger) = Extremely Winterha	Winterhardy (Mesilla)	2 = Non-Wintern 4 = Semi-Wintern 6 = Moderately W 8 = Winterhardy	ardy (Lahontan) /interhardy (Saranac)				
т	EST LOCATION:	Warden, WA						
2. FALL DORMANCY:	F/	ALL DORMANCY (E	DETERMINED FROM	W SPACED PLANT	INGS)			
				REGROWTH SCORE	OR AVERAGE HEIG	нт		
TESTING INSTITUTION	DATE OF	DATE REGROWTH	APPLICATION	}	CHECK VARIETI	ES*	LSD .05	
AND LOCATION	LAST CUT	SCORED	VARIETY	Vernal	Ranger	Saranac		
W-L Research, Inc. Warden, WA	9/16/87	10/15/87	7.0	5.2	6.9.	7.8	1.3	
,								
3. RECOVERÝ AFTER FIRST SPRIM 3 1 = Very Fa	ured in incommend from Fall Dorm = Erect (CUF 101) = Semidecumbent (Ve	ches in repl ancy Trials) 3 = Ser y = Dec first cut after March 21	Licated space nierect (Mesilla) cumbent (Norseman)	6 = Intermedia	te (Saranac)	7 = Slow (Verna		
TEST LOCA	Hia	hland, MD			_			
4. AREAS OF ADAPTATION IN U.S.	(Where tested and pro	ven adapted):						
Primary Area of Adaptati	on			2 5 o	ther Areas of Adaptati	on		
	entral tely Winterhardy Intern Specify)	2 = East Central nountain	3 = Sor 6 = Winterhardy Inte		4 = Southwest 5 7 = Great Plains		3	
T TI OWEDING DATE IN	-4-4		ing nucle		****			
5. FLOWERING DATE (When 10% of O 2 Days Earlier Than		,					5 m Norman	
Same As	<u></u>	1 = CU	F 101	2 = Mesilla	3 = Saranac	4 = Vernal	5 = Norseman	
0 3 Days Later Than	TEST LOCATION:	Highla	ind, MD				9	

6. PLANT COLOR (Determined from healthy regrowth 3 weeks after first spring cut, controlling leafhoppers if necessary): 2 1 = Very Dark Green (524) 2 = Dark Green (Vernal) 3 = Light Green (Ranger) Munsell Color Charts, 1st Edition 1952, Munsell Co., Baltimore, COLOR CHART VALUE (Specify chart used; _ APPLICATION VARIETY: __5/6 5/6 (WL 315 = 4/4) Highland, MD - Measurements taken June 5-6, 1986 (Insect Control = Furadan) TEST LOCATION: 7. CROWN TYPE (Determined from spaced plantings): 2 Noncreeping Types: 1 = Broad (Vernal) 2 = Intermediate (Saranac) 3 = Narrow (CUF 101) Creeping Types: 4 = Creeping Rooted (Rangelander) 5 = Rhizomatous (Rhizoma) 8. FLOWER COLOR (Determine frequency of plants for each color class as defined by USDA Agricultural Handbook No. 424 (Barnes 1972), allowing all plants in plot to flower): 5 % Purple and Violet (Subclasses 1.1 to 1.4) % Blue (Subclasses 2.3 and 2.4) % Variegated Other Than Blue (Subclasses 2.1, 2.2, 2.5 to 2.9) % Yellow (Subclasses 4.1 to 4.4) % Cream (Class 3) % White (Class 5) Warden, WA TEST LOCATION: 9. POD SHAPE (Determine frequency of plants with the following pod shapes produced on well cross-pollinated racemes): 0 0 % Tightly Coiled (One or more coils, center more or less closed) % Loosely Coiled (One or more coils, center conspicuously open) Warden, WA % Sickle (Less than 1 coil) TEST LOCATION: _ 10. PEST RESISTANCE: Provide in the appropriate column, trial data for application variety, and resistant (R) and susceptible (S) check varieties, synthetic generation tested, average severity index scores (ASI), least significant difference statistics (LSD .05), the institution in charge of test, year, and location of test, and whether test is a field or laboratory evaluation. Describe scoring system, and any test procedure which differs from standard methods proposed by Elgin (1982). Trial data from other test years or locations should be presented whenever available on a separate document as Exhibit D. Seeds of the check varieties and germplasm lines listed below can be obtained from the USDA Field Crops Laboratory, Bldg. 001, Rm. 335, BARC-West, Beltsville, MD 20705. Although comparisons with check varieties listed below are preferred, comparisons with any appropriate check variety recommended by Elgin (1982) may be presented. A. DISEASE RESISTANCE: PERCENT SYN. GEN. NUMBER OF INSTITUTION, YEAR, LOCATION, ASI VARIETY RESISTANT ASI DISEASE TESTED PLANTS TESTED LSD .05 FIELD OR LABORATORY PLANTS Anthracnose, Race 1 Application 1 310 % Resis. W-L Research, Inc. ,67 (Colletotrichum trifolii) 1987 Highland, MD LSD (.05) (HR) AKMIN Saranac AR (R) 30 317 6.0 2 Saranac (S) 292 SCORING SYSTEM: % Resistance based on survivors in greenhouse seedling test Anthracnose, Race 2 Application (Collectotrichum trifolii) Saranac AR (R) Arc (S) SCORING SYSTEM: **Bacterial Wilt** Application (Corynebacterium insidiosum) 1 60 161 1.38 W-L Research, Inc. 1987 Highland, MD Vernal (R) 0.52 53 1.57 173 (R) Narragansett (S) 9 188 3.44 SCORING SYSTEM: Plants scored 0-5; 0 and 1 resistance and 5 = dead plant Common Leafspot Application (Pseudopeziza medicaginis) MSA-CW3AN3 (R) Ranger (\$) SCORING SYSTEM:

<u> L200064</u>

10. A. PEST RESISTANCE (Cor	rtinued):	1		<u> </u>		· · · · · · · · · · · · · · · · · · ·	*
DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Downy Mildew (Peronospora trifoliorum)	Application						
Isolate, if known:	Saranac (R)						
	Kanza (S)						
	SCORING SYSTEM:		•	- 	<u> </u>		
Fusarium Wilt (Fusarium oxysporum f. medicaginis)	Application	1	42	145	2.50		W-L Research, Inc
	мжжжин) Ада	ite (R)	57	162	1.90	0.46	1985 Highland, MI
(R)	нжжижихы Mr	GN-1 (S)	16	138	3.94		
· .	scoring system: Plants sco	red 0-5;	0 and 1	resistant a	nd 5 =	dead plant	<u> </u>
Phytophthora Root Rot (Phytophthora megasperma f. medicaginis)	Application	1	34	235		% Resis.	W-L Research, In
	Agate (R)		33	238		LSD(.05)	1987 Highland, M
(R)	Saranac (S)		3	244		8.0	
	SCORING SYSTEM:	Resista	nce based	on survivo	rs in a	greenhous	e seedling test
Verticillium Wilt (Verticillium alboatrum)	Application	1	27	299	3.3		Univ. of Wis/Mad
(R)	Vertus (R)		33	281	3.0	0.2	1987
. •	Saranac (S)		5	305	4.2		
	SCORING SYSTEM: Plants sco	red 1-5	in growth	room test;	l and	2 resistan	t and 5 = dead pla
Other (Specify)	Application						
	(R)			-			
	(S)		-			·	
	SCORING SYSTEM:		t m	<u> </u>	:	<u> </u>	e e e e e e e e e e e e e e e e e e e
Other (Specify)	Application				· · · · · · · · · · · · · · · · · · ·		
	(R)					. ·	
	(s)						
	SCORING SYSTEM:			l			<u> </u>
INSECT RESISTANCE:	VARIETY	SYN. GEN. TESTED	PERCENT DEFOLIATION	DEFOLIATION IN PERCENT OF RESISTANT CHECK	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Alfalfa Weavil (Hypera postica)	Application		<u> </u>	·		· · · · · · · · · · · · · · · · · · ·	
	Arc (R)		·	100			
	Saranac (S)						
	SCORING SYSTEM:						11

VARIETY	SYN. GEN. TESTED	PERCENT SEEDLING SURVIVAL	NUMBER OF SEEDLINGS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Application	1	5	220	3.7		W-L Research, Inc
CUF 101 (R)		59	220	2.4	0.4	1987 Bakersfield,
PA-1 (S)		14	220	3.8		
scoring system: Plants	scored 1	-5; 1 and	2 resistant	z, 5 = d	dead plant	
Application	1	57	207	2.4		W-L Research, Inc
Kanza (R)		38	194	2.9	0.5	1984 Bakersfield,
Ranger (S)		4	213	4.6		
scoring system: Plants sc	ored 1-5;	l and 2	resistant,	5 = dea	ad plant	
Application	1	13	155	4.5		W-L Research, Inc
Kanza (R)		52	154	3.1	0.4	1987 Bakersfield,
Ranger (S)		0	166	5.0		
scoring system: Plants sco	ored 1-5;	1 and 2	resistant,	5 = dea	ad plant	
VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	AŞI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Application						
MSA-CW3An3 (R)						
Ranger (S)						
SCORING SYSTEM:		-	,,	L		
Application	^			* :		
(R)	L					
(S)				_		
SCORING SYSTEM:					• • • • • • • • • • • • • • • • • • • •	
VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Application	1	24	245	2.5		W-L Research, Inc
Nev. Syn. XX (R) Lahontan (S)		87	215	1.2	0.5	1987 Warden, WA
	Application CUF 101 (R) PA-1 (S) SCORING SYSTEM: Plants Application Kanza (R) Ranger (S) SCORING SYSTEM: Plants SC Application Kanza (R) Ranger (S) SCORING SYSTEM: Plants SC VARIETY Application MSA-CW3An3 (R) Ranger (S) SCORING SYSTEM: Plants SC VARIETY Application MSA-CW3An3 (R) Ranger (S) SCORING SYSTEM: Application (R) (S) SCORING SYSTEM: VARIETY	Application 1 CUF 101 (R) PA-1 (S) SCORING SYSTEM: Plants scored 1- Application 1 Kanza (R) Ranger (S) SCORING SYSTEM: Plants scored 1-5; Application 1 Kanza (R) Ranger (S) SCORING SYSTEM: Plants scored 1-5; Application 1 Kanza (R) Ranger (S) SCORING SYSTEM: Plants scored 1-5; VARIETY SYN. GEN. TESTED Application MSA-CW3An3 (R) Ranger (S) SCORING SYSTEM: Application (R) (S) SCORING SYSTEM: Application SYN. GEN. TESTED	VARIETY	VARIETY	VARIETY	VARIETY

FORM LS-470-32 (4-85)

NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Southern Root Knot (Meloidagyne incognita)	Application						4.
•	Moapa 69 (R)						
	Lahontan (S)						
	SCORING SYSTEM:			,			
Stem Nematode (Ditylenchus dipsaci)	Application	1	38	204	3.1		W-L Research, Inc
	Lahontan (R)		42	191	2.9	0.4	1987 Warden, WA
(R)	Ranger (S)		19	197	3.6		
	SCORING SYSTEM: Plants scor	red 1-5;	l and 2 re	esistant, 5	= dead	l plant	
Other (Specify)	Application						
e e	(R)	* .					
	(S)						

1. INDICATE THE VARIETY THAT M	OST CLOSELY RESEMBLES THE APPLICATION	ON VARIETY FOR EACH OF THE FOLLOWING CH	ARACTERS:	
CHARACTER	VARIETY	CHARACTER	VARIETY	
Winterhardiness	Arrow	Plant Color	Fortress	
Recovery After 1st Cut	WL 316	Стомп Туре	Oneida VR	
Area of Adaptation	5432	Combined Disease Resistance	Fortress	
Flowering Date	Oneida VR	Combined Insect Resistance	DK 125	

REFERENCES

Barnes, D.K. 1972. A System for Visually Classifying Alfalfa Flower Color. U.S. Dep. Agric. Handb. 424. 18 pp. (Note: Greenish cast of plate 6, A and B is an artifact of printing, actual colors a blend of yellow and white.)

Elgin, J.H., Jr., (ed.). 1982. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars. U.S. Dep. Agric. Tech. Bull. (In Press).

Gunn, C.R., W.H. Skrdla, and H.C. Spencer. 1978. Classification of Medicago sativa L. using legume characters and flower colors. U.S. Dep. Agric. Tech. Bull. 1574. 84 pp.

Munsell Color Co., 1977. Munsell Plant Tissue Color Charts. Munsell Color Co., Inc. Baltimore.

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

Exhibit D

Additional Description of Variety

Allegiance is a fall-dormant variety adapted to the northern half of the United States. Mid-summer growth is erect and fall growth is semi-erect. The estimated germplasm source contributions are M. falcata - 6%, Ladak - 5%, M. varia - 19%, Turkistan - 2%, Flemish - 66%, and Chilean - 2%.

To maintain varietal integrity, foundation seed of Allegiance must be produced above 40° N. latitude or in areas where equivalent temperature extremes result from increased elevation. No limitation is placed on areas for certified seed production.

Exhibit E

Statement of Applicant's Ownership

Allegiance is a proprietary alfalfa variety developed by the plant breeding staff of W-L Research, Inc., 2000 Oak Street, Bakersfield, California 93301. Plant Variety Protection and marketing rights for Allegiance have been transferred from W-L Research, Inc. to United Agriseeds, P. O. Box 4011, Champaign, Illinois 61820.

Applications for plant variety protection on Allegiance have not been filed in any other country.